

EUPHORBIA MILII PLANT NAMED 'KRONOS'

Latin name of the genus and species of the plant claimed:

Euphorbia milii Desmoul.

Variety denomination:

5 Kronos

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct cultivar of *Euphorbia milii* plant, botanically known as *Euphorbia milli* Desmoul., commonly known by the name Crown of Thorns, and hereinafter referred to by the name 'Kronos'.

10 The new *Euphorbia milii* is a product of a planned breeding program conducted by the Inventor, Steen Thomsen, in Haarslev, Fyn, Denmark. The new *Euphorbia milii* originated from a polycross made in 2001 by the Inventor with unnamed cultivars of *Euphorbia milii* Desmoul.. The male and female parental cultivars are unnamed, unpatented seedlings of *Euphorbia milii* Desmoul.. The
15 Inventor selected the new *Euphorbia milii* cultivar from the progeny of the above crossing in 2001 on the basis of its flower color and compact, freely branching habit. Plants of the new *Euphorbia milii* are smaller, compact and have a unique color, large leaves and abundant medium sized flowers.

A sexual reproduction of the new cultivar by terminal cuttings taken and
20 propagated and trial production batches at Hjortebjerg Nurseries, Denmark, has

shown that the unique features of this new *Euphorbia milii* are stable and reproduced true to type in many successive generations.

BRIEF SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Kronos'. These characteristics in combination distinguish 'Kronos' as a new and distinct cultivar:

1. Light red to red-purple floral bract color from 50C to 58B.
2. Very low and bushy plant form.
3. Vigorous growth habit..
- 10 4. Larger, green flowers on thick gray-brown peduncles, RHS 199B.

Plants of the cultivar 'Kronos' can be compared to plants of the cultivar *Euphorbia milii* 'Themis'. In side-by-side comparisons conducted by the Inventor in Haarslev, Denmark, plants of the cultivar 'Kronos' and the cultivar 'Themis' differ in the following characteristics:

- 15 1. Plants of the new *Euphorbia milii* have light red to red-purple colored bracts and staminate cyathia with orange glands.
2. Plants of the new *Euphorbia milii* have larger dark green leaves.
3. Plants of the new *Euphorbia milii* have shorter and stiffer peduncles than plants of the cultivar 'Themis'.

4. Plants of the new *Euphorbia milii* are more compact and less branched than the plants of the cultivar 'Themis'

Plants of the cultivar 'Kronos' have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in
5 environment such as temperature, light intensity, day length, and fertility level without, however, any variance in genotype.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying color photographs illustrate the overall appearance and details of flower form, color and structures of the new cultivar, showing the
10 colors as true as it is reasonably possible to obtain in color reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which more accurately describe the actual colors of the new *Euphorbia milii*.

The first photograph shows a full view of a typical flowering plant of
15 'Kronos', as grown in an 11 cm pot. The second photograph is a close-up of the young and older floral cymes of 'Kronos'.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Colour Chart, 4th edition, where general terms of ordinary
20 dictionary significance are used. Plants were grown under greenhouse conditions. Plants used for this description were grown for about 17 weeks after cutting and produced in 6 cm pots. Other pot sizes can be used and the plants are intended for

indoor use or as a bedding plant in temperate climates while it is a perennial garden plant in tropical and subtropical areas.

Botanical classification: *Euphorbia milii* Desmoul.. 'Kronos'. Euphorbiaceae,
Spurge family.

5 Parentage:

Female parent: Unnamed seedling plant of *Euphorbia milii*

Male parent: Unnamed seedling plant of *Euphorbia milii*

Propagation:

10 Type cutting: Terminal vegetative cuttings taken from plants kept in the
vegetative stage by shading and high temperatures (25C).

Time to initiate roots: About 10 to 14 days at 18 to 21 C in tunnels in a
greenhouse.

Root description: Fine, well branched.

Plant description:

15 Form: Perennial plant with upright plant habit. *Euphorbia milii*
'Kronos' flowers in cymes with cyathia subtended by colored bracts. Freely branching
with about 3 lateral flowering branches forming at every node; dense and bushy.
Stems are square to pentagonal with ridges – about 10 mm thick at the base. By each
node appears groups of thorns: 1 large 12 mm and 4-5 smaller 5 mm. Young thorns

are green: 148A; while the older ones becomes stiffer and changes color to gray
(199B)

Crop time: After rooting, about 17 weeks are required to produce finished flowering
plants in 6 cm pots.

5 Plant height (soil level to top of plant plane): About 12 cm. Width: 21 cm

Vigor: Vigorous growth rate.

Foliage description: Leaves alternate, single, obovate, entire, craspedromous
venation. Length: 12 cm. Width: About 40 mm.. Apex: acute with a small (1 mm)
thorn-like appendage. Base: cuneate to almost decussatee Texture: smooth, waxy,
10 dull., glabrous. Color: Young foliage, upper and lower surfaces: 146A and 146C,
yellow- green. Mature foliage, upper and lower surfaces: 139A and 148B
respectively. Venation, 148D.

Flower description:

Flower arrangement and shape: Floral arrangements composed of cymes. The
15 flowers (cyathia) are starkly reduced so only a circle of 5 glands and the reproductive
organs are present. Subtending the cyathia are two colored bracts. The flowers are
further complicated by the unique feature of funnel shaped floral buds appearing at
the base of the bracts in two or more layers.

Natural flowering season: Continuous throughout the spring and
20 summer in subtropical and tropical regions. In colder climates season can be extended
by greenhouse production with high temperatures and supplementary irradiance.

Flower longevity on the plant: Longevity of individual flowers is highly dependent on temperature and light conditions 5 to 9 weeks. Bracts turn green with age. Entire cymes drop after withering.

Inflorescence size: Diameter: About 3x5 cm, height: 10 cm

- 5 Flowers: 3 mm diameter, Bracts: overlapping at base, ovoid to inverted cordate 10x17 mm; color from 50C to 58B during development

Glands: 5, from 25A shiny orange to 28A during development.

Anthers: Appear after flowers mature; stamen and pollen color 59A, yellow-orange

- 10 Pistil and stigma: Appear before cyathia mature; color 58B to 58C, greenish-yellow.

Peduncle: Strength: strong. Length: About 6 cm. Diameter: About 3 mm. Color: 199B, gray-brown at an angle of 45°

Pedicels: 10 mm long, 2 mm thick; strong; color: 153A, yellow-green

- 15 Weather tolerance: Plants of the new *Euphorbia milii* have exhibited good tolerance to draught, rain and wind, however flowering may cease during cold and dark periods (<15C)

Pest tolerance: Plants of the new *Euphorbia milii* have exhibited good tolerance to following fungi: Mildew, and Thivaliopsis. Also, they appear to be less

- 20 infected by Thrips (Frankliniella)